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IN THE CLAIMS:

A listing of all claims pending is included hereafter:

1. (currently amended) A packaging material which comprises: a polymeric base

component; and a barrier component which coats and lines a surface of the base component, the

barrier component inhibiting migration of gases, vapours and liquids through the base

component, and the barrier component comprising a polymeric layer which coats and lines the

surface of the base component, the polymeric layer comprising at least two different polymeric

species which are polar and which are water soluble, the different species having different

chemical compositions and being complementary in that they are bound together physically by

interpolymer complexation to form an interpenetrating physical network which provides the

barrier component and the polymeric species being selected from the group consisting of

polyvinyl alcohols, polyvinyl amines, polyvinyl imines, polyvinyl acetates, polyglycols,

polyacrylic acids, polyalkylacrylic acids, polyacrylamides, polyalkyl acrylamides, polyvinyl

pyrrolidones, polylactides, polyanhydrides, polyamides, proteins, hydroxyethyl starches,

carboxymethyl starches, and copolymers of any two or more thereof.

A packaging material as claimed in claim 1, which is in the form of a package or 2. (original)

container.

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A packaging material as claimed in claim 2, which in the package or container is 3. (original)

selected from the group consisting of capsules, blister packages, sachets, envelopes, jerry cans,

bottles and jars.

4. (original) A packing material as claimed in claim 2, which has an inner surface which is

coated and lined by the barrier component.

A packaging material as claimed in claim 2, which it has an outer surface which is 5. (original)

coated and lined by the barrier component.

A packaging material as claimed in claim 1, in which the barrier component 6. (original)

adheres to the base component physically by electrostatic bonding.

A packaging material as claimed in of claim 1, in which the barrier component 7. (original)

adheres to the base component chemically by covalent bonding.

A packaging material as claimed in claim 1, in which each barrier component has 8. (original)

a surface remote from the base component and having a protective coating thereon, on the

opposite side of the barrier component from the base component.

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A packaging material as claimed in claim 8, in which the material of the 9. (original) protective coating is of a material selected from the group consisting of thermosetting polymers, ultraviolet-curable polymers and thermoplastic polymers.

10. (original) A packaging material as claimed in claim 9, in which the material of the protective coating is selected from the group consisting of the polymeric material of the base component, polyurethanes, urethane acrylates, polyvinylidine chlorides, polyacrylates, polyepoxides, polydimethyl siloxanes and copolymers of any two or more thereof.

11. (original) A packaging material as claimed in of claim 1, which is in the form of a bottle for use in the bottling of carbonated drinks or beverages, there being a single barrier component which is located on the outer surface of the bottle, the base component comprising a polymeric plastics material selected from the group consisting of polyethylene terephthalates, polyethylene terephthalate glycols, polycarbonates, polystyrenes, polyamides, polybutylene terephthalates, polyethylene naphthalates, polyacrylonitriles, polymethyl pentenes, polyvinyl chlorides, polyethylenes, polypropylenes, polybutylenes and copolymers of any two or more thereof.

12. (cancelled) A packaging material as claimed in claim 1, in which the complementary species

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of the barrier component are selected from the group consisting of polyvinyl alcohols, polyvinyl

amines, polyvinyl imines, polyvinyl acetates, polyglycols, polyacrylic acids, polyalkylacrylic

acids, polyacrylamides, polyalkyl acrylamides, polyvinyl pyrrolidones, polylactides,

polyanhydrides, polyamides, celluloses, pectins, proteins, gums, hydroxymethyl celluloses,

carboxylmethyl celluloses, hydroxyethyl starches, carboxymethyl starches, cellulose acetates,

cellulose acetate butyrates, cellulose acetate proprionates and copolymers of any two or more

thereof.

13. (original) A packaging material as claimed in of claim 11, in which the complementary

species of the barrier component are selected from polyvinyl alcohols and polymethyl vinyl

ether/malefic acid copolymers.

14. (original) A packaging material as claimed in claim 1, in which that the complementary

species of the barrier component each have a molecular mass in the range 4 000-100 000 g/mol,

the major proportion of the molecules thereof having molecular masses falling within this range.

15. (original) A packaging material as claimed in claim 14, in which the molecular mass range

is 28 000-76 000 g/mol.

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16. (original) A packaging material as claimed in claim 1, in which the surface of the base component, where it is coated and lined by the barrier component, is activated by a technique selected from the group consisting of oxyfluorination, flame treatment, plasma treatment, and combinations of any two or more thereof.

A process for producing a packaging material which comprises a 17. (withdrawn) polymeric base component and a barrier component which coats and lines a surface of the base component, the barrier component inhibiting migration of gases, vapours and liquids through the base component, the process comprises the step of coating at least one surface of the base component with a barrier component in the form of a polymeric layer which comprises at least two complementary polymeric species which are polar and water soluble, and have different chemical compositions, the layer lining the base component and the coating step causing the complementary species to interact together physically by interpolymer complexation to form an interpenetrating physical network which provides the barrier component.

A process as claimed in claim 17, which includes the step of shaping the 18. (withdrawn) base component into a package or container.

A process as claimed in claim 18, in which the coating step takes place 19. (withdrawn)

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after the step of shaping the base component into a package or container.

20. (withdrawn) A process as claimed in claim 18, in which the coating step takes place on an inner surface of the package or container.

21. (withdrawn) A process as claimed in claim 18, in which the coating takes place on an outer surface of the container.

22. (withdrawn) A process as claimed in claim 17, in which coating step comprises physically adhering the barrier component to the base component by electrostatic bonding.

23. (withdrawn) A process as claimed in claim 17, in which the coating step comprises chemically adhering the barrier component to the base component by covalent bonding.

24. (withdrawn) A process as claimed in claim 1, which includes the step, after the coating of the base component with each barrier component, of providing a protective coating on the opposite side of each barrier component from the base component, remote from the base component.

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A process as claimed in claim 17, which includes the step of selecting the 25. (withdrawn) material of the protective coating from the group consisting of thermosetting polymers, ultraviolet-curable polymers and thermoplastic polymers.

26. (withdrawn) A process as claimed in claim 17, which includes the step of selecting the material of the protective coating from the group consisting of the polymeric material of the base component, polyurethanes, urethane acrylates, polyvinylidine chlorides, polyacrylates, polyepoxides, polydimethyl siloxanes and copolymers of any two or more thereof.

27. (withdrawn) A process as claimed in claim 17, which includes the step of selecting the base component from materials of the group consisting of polyethylene terephthalates, polyethylene terephthalate glycols, polycarbonates, polystyrenes, polyamides, polybutylene terephthalates, polyethylene naphthalates, polyacrylonitriles, polymethyl pentanes, polyvinyl chlorides, polyethylenes, polypropylenes, polybutylenes and copolymers of any two or more thereof.

A process as claimed in claim 17, which includes the step of selecting each 28. (withdrawn) of the complementary species of the barrier component from the group consisting of polyvinyl alcohols, polyvinyl amines, polyvinyl imines, polyvinyl acetates, polyglycols, polyacrylic acids,

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polyalkylacrylic acids, polyacrylam ides, polyalkyl acrylamides, polyvinylpyrrolidones,

polylactides, polyanhydrides, polyamides, celluloses, pectins, proteins, gums, hydroxymethyl

celluloses, carboxylmethyl celluloses, hydroxIlethyl starches, carboxymethyl starches, cellulose

acetates, cellulose acetate butyrates, cellulose acetate proprionates and copolymers of any two or

more thereof.

A process as claimed in claim 17, which includes the step of selecting each 29. (withdrawn)

of the complementary species of the barrier component from the group consisting of polyvinyl

alcohols and polymethyl vinyl ether/maleic acid copolymers.

30. (withdrawn) A process as claimed in claim 28, which includes the step of selecting each

of the complementary species of the barrier component to have a molecular mass in the range 4

000-100 000 g/mol, the major proportion of the molecules thereof having molecular masses

falling within this range.

31. (withdrawn) A process as claimed in claim 30, in which the molecular mass range is 28

000-76 000 g/mol.

32. (withdrawn) A process as claimed in claim 17, which includes the step, prior to the

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coating of the base component with the barrier component, of activating the surface of the base component.

A process as claimed in claim 32, in which the step of activating the 33. (withdrawn) surface of the base component includes physically activating said surface, by subjecting it to an activation technique selected from roughening or abrading, ultraviolet radiation treatment, gamma radiation treatment, flame treatment, plasma treatment and combinations of two or more thereof.

34. (withdrawn) A process as claimed in claim 32, in which the step of activating the surface of the base component includes chemically activating said surface, by subjecting it to an activation technique selected from etching, ozone treatment, fluorine treatment, chlorine treatment, oxidising treatment and combinations of any two or more thereof.

35. (withdrawn) A process as claimed in claim 34, in which the activation step is selected from the step of oxidising by means of a strong oxidising agent selected from potassium peroxidisulphate, azoisobutyinitrite, potassium permanganate, the step of fluorinating, the step of oxyfluorinating and combinations of any two or more said steps.

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36. (withdrawn) A process as claimed in claim 17, in which the coating of the base

component surface with the barrier component is by forming a mixture which is a solution of the

complementary species of the barrier component in a solvent, coating the base component with

the solution, and removing the solvent from the coating to dry the coating.

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